

## Weekly Report (2015.8.10~8.16)

**Done**

- 1) Reading papers about large graph visualization, most authored by James Abello. Figure 1 shows the interface of his work(ASK-GraphView) in 2006. It transfers a graph into a hierarchical tree structure, then use that structure to drive the navigation and also to provide an interaction context.

The clustering algorithm used in this work is not easy to understand, but from his earlier work, I can see that it is evolved from Boruvka's contraction algorithm, which is used to generate a minimum spanning tree.

For our specific project, I am wondering how the specialists decide which group to choose (out of as many as 3,000 groups) for further exploration, i.e., how they choose the node to expand when we providing a hierarchical structure. I think the answer helps when designing the specific clustering algorithm.

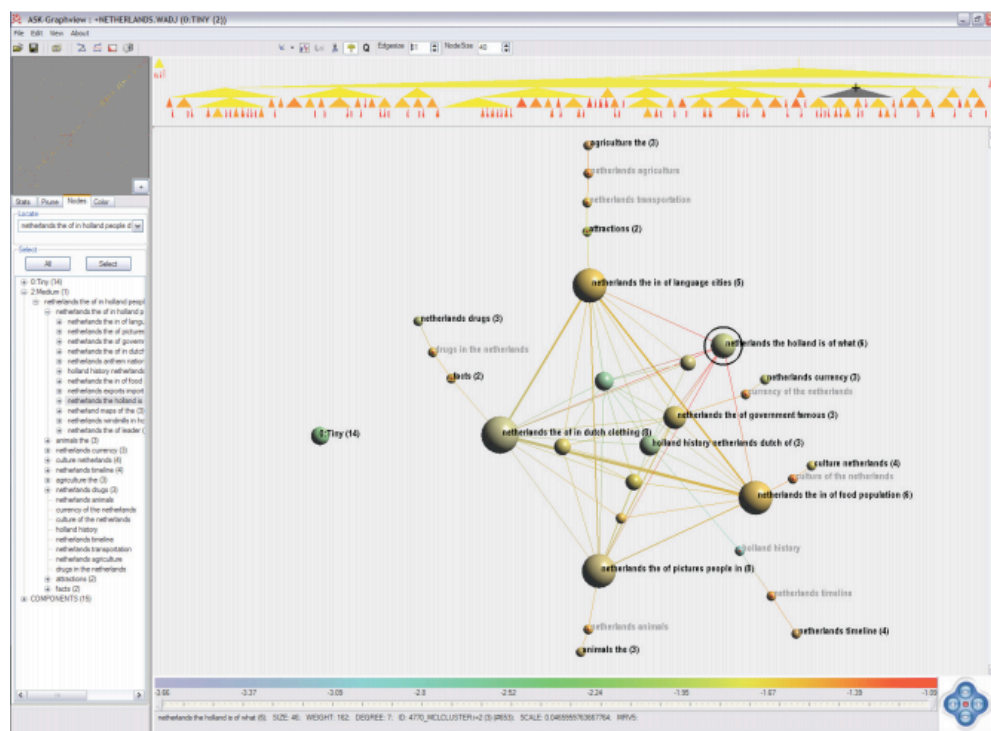


Figure 1 User Interface of ASK-GraphView

## To Do

- 1) Asking for the details of how they work on this data before. i.e., how they choose a specific group to explore when giving as many as 3,000 groups. That will help a lot when making design decisions.
- 2) Discuss on the layout and interaction for the hierarchical design.